

MD 924 IS ASSUMED TO RUN  
IN A NORTH-SOUTH DIRECTION

EXISTING SIGNS TO  
BE REMOVED

14A, 16A, 18A, 20A



EXISTING SIGNS

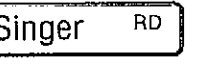
18, 20



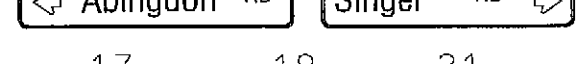
13



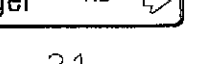
14



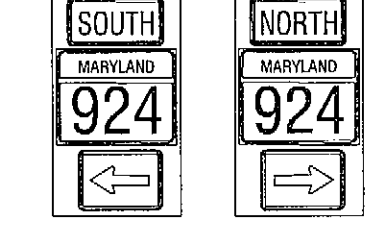
16



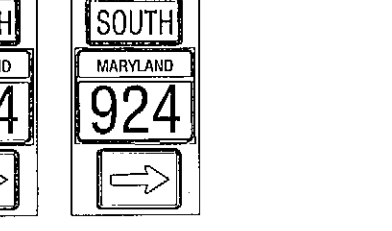
15



17



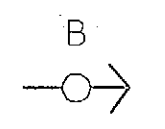
19



21



EXISTING OPTICOM  
DETECTOR EYE

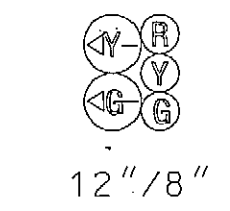


PROPOSED VIDEO  
DETECTION CAMERA

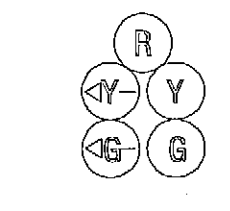


EXISTING SIGNALS

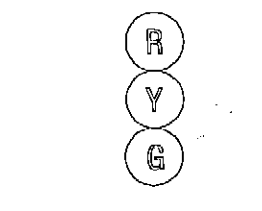
1, 4, 7, 10



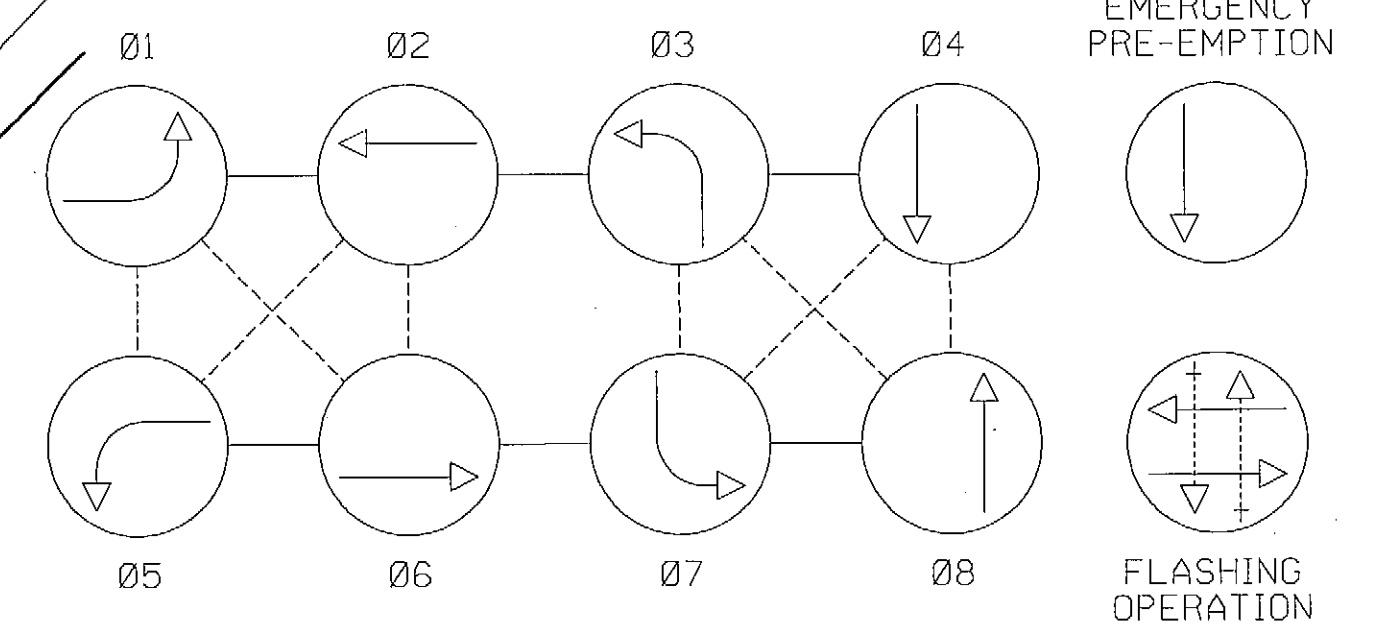
2, 5, 8, 11



3, 6, 9, 12



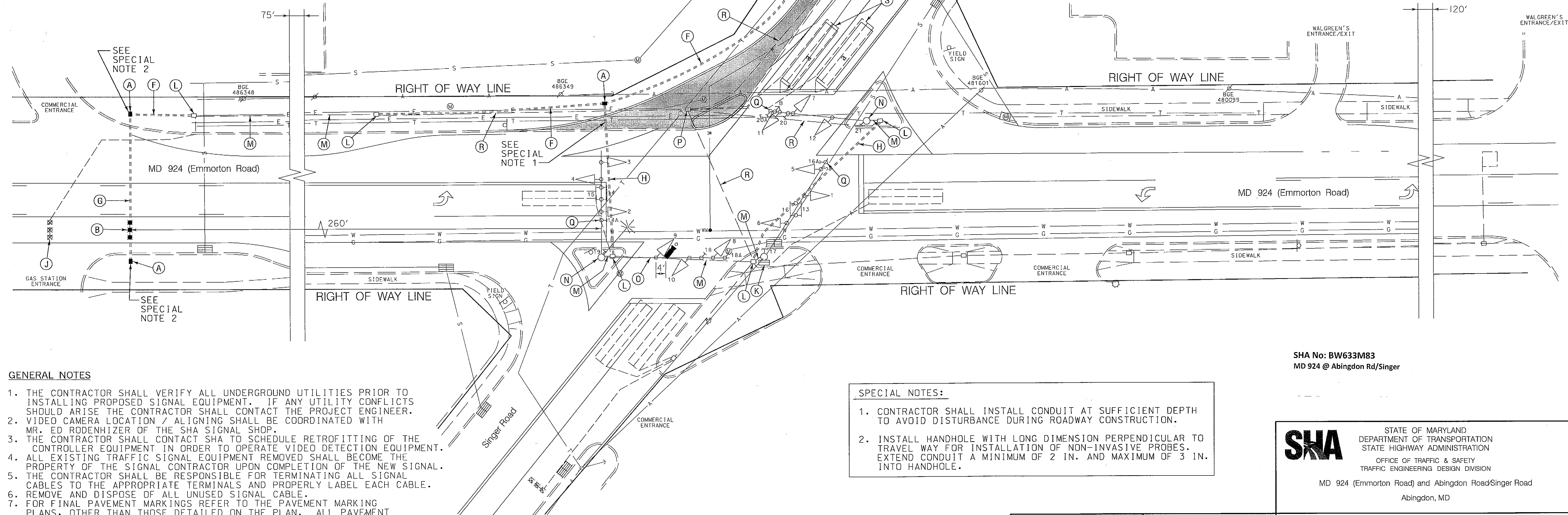
NEMA PHASING



NOTE:  
PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.  
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

CONSTRUCTION DETAILS

- INSTALL HANDHOLE.
- INSTALL NON-INVASIVE MICROLOOP PROBE SET WITH 500 FT. LEAD-IN IN PROPOSED 3 IN. CONDUIT.
- REMOVE EXISTING SIDEWALK AND INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED. REPLACE 5 INCH CONCRETE SIDEWALK.
- REMOVE EXISTING HANDHOLE AND INSTALL NEW HANDHOLE 90 DEGREES TO ROADWAY.
- INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
- INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - BORED.
- INSTALL 4 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - SLOTTED.
- ABANDON EXISTING MICROLOOP PROBE SET. DISCONNECT AND REMOVE MICROLOOP PROBE CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.
- USE EXISTING POLE MOUNTED CABINET AND CONTROLLER. (NOTE: SHA FORCES SHALL RETROFIT CONTROLLER EQUIPMENT TO OPERATE VIDEO DETECTION EQUIPMENT).
- USE EXISTING HANDHOLE.
- USE EXISTING CONDUIT.
- USE EXISTING STEEL POLE.
- USE EXISTING MAST ARM AND INSTALL OVERHEAD VIDEO DETECTION CAMERA AND REMOVE EXISTING R10-12 SIGN AS SHOWN.
- REMOVE EXISTING HANDHOLE.
- REMOVE EXISTING R10-12 SIGN FROM MAST ARM AS SHOWN.
- CAP AND ABANDON EXISTING CONDUIT.
- ABANDON EXISTING LOOP DETECTOR. DISCONNECT AND REMOVE LOOP DETECTOR CABLES FROM CONDUITS, HANDHOLES, SIGNAL STRUCTURES AND CONTROLLER.



GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH MR. ED RODENHIZER OF THE SHA SIGNAL SHOP.
- THE CONTRACTOR SHALL CONTACT SHA TO SCHEDULE RETROFITTING OF THE CONTROLLER EQUIPMENT IN ORDER TO OPERATE VIDEO DETECTION EQUIPMENT.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
- REMOVE AND DISPOSE OF ALL UNUSED SIGNAL CABLE.
- FOR FINAL PAVEMENT MARKINGS REFER TO THE PAVEMENT MARKING PLANS, OTHER THAN THOSE DETAILED ON THE PLAN. ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
- VERIFY PROPOSED GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT.
- ALL HANDHOLES SHALL BE INSTALLED AT FINAL GRADE.
- THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS CAUSED BY THE INSTALLATION OF SIGNAL EQUIPMENT.
- THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS CAUSED BY THE INSTALLATION OF SIGNAL EQUIPMENT.
- THE SIGNAL CONTRACTOR SHALL DETERMINE IF ANY WORK BY OTHER CONTRACTORS CAN NOT BE COMPLETED UNTIL INSTALLATION OF SIGNAL EQUIPMENT IS COMPLETE. THE SIGNAL CONTRACTOR SHALL NOTIFY MR. RICK BATES OF HARFORD COUNTY (1-410-638-3509 EXT. 1298) SHOULD A PROBLEM ARISE.

SPECIAL NOTES:

- CONTRACTOR SHALL INSTALL CONDUIT AT SUFFICIENT DEPTH TO AVOID DISTURBANCE DURING ROADWAY CONSTRUCTION.
- INSTALL HANDHOLE WITH LONG DIMENSION PERPENDICULAR TO TRAVEL WAY FOR INSTALLATION OF NON-INVASIVE PROBES. EXTEND CONDUIT A MINIMUM OF 2 IN. AND MAXIMUM OF 3 IN. INTO HANDHOLE.

| GEOMETRIC LEGEND |                  |
|------------------|------------------|
| ---              | EXISTING         |
| ---              | PROPOSED         |
| UTILITY LEGEND   |                  |
| SD               | STORM DRAIN      |
| G                | GAS MAIN         |
| W                | WATER MAIN       |
| S                | SEWER MAIN       |
| E                | ELECTRIC CABLES  |
| A                | AERIAL CABLES    |
| T                | TELEPHONE CABLES |
| F                | FIBER-OPTIC      |

**WR&A**  
**WHITMAN, REQUARDT & ASSOCIATES, LLP**  
801 South Caroline Street, Baltimore, Maryland 21231

| APPROVALS        |  |
|------------------|--|
| TEAM LEADER      |  |
| ASST. DIR. CHIEF |  |
| DIVISION CHIEF   |  |
| OFFICE DIRECTOR  |  |

| REVISIONS |   |
|-----------|---|
| 6         | INSTALL VIDEO DETECTION AND REPLACED BACK DETECTION ON ABINGDON RD. DUE TO WIDENING SHA. NO. XX4185185 TMS# K006 12/01/2009 |
| 7         | INSTALL OPTICOM PRE-EMPTION ON WESTBOUND ABINGDON ROAD SHA. NO. AT5825185 TMS# G762 1/26/2005                               |
| 8         | REPLACE DETECTION DUE TO WIDENING AND ADDITION OF FREE RIGHT LANE. SHA. NO. BW96982 TMS# 0858 NOT COMPLETED 09/20/2002      |

SHA No: BW633M83  
MD 924 @ Abingdon Rd/Singer

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 924 (Emmorton Road) and Abingdon Road/Singer Road  
Abingdon, MD

| TRAFFIC SIGNALIZATION PLAN |                           |                            |                  |
|----------------------------|---------------------------|----------------------------|------------------|
| SCALE 1" = 20'             | ADVERTISED DATE 4/26/1983 | CONTRACT NO. H-847-501-485 |                  |
| DESIGNED BY J. Gordon      | COUNTY Harford            |                            |                  |
| DRAWN BY J. Bolling        | LOGMILE 12092401.01       |                            |                  |
| CHECKED BY D. Doda         | TMS NO. K006              |                            |                  |
| F.A.P. NO. SEE TITLE SHEET | TOD NO.                   |                            |                  |
| TS NO. 1904 G              | DRAWING TSP-1             | OF 2                       | SHEET NO. 1 OF 2 |

BY: sbloss